

**Gary Development Landfill Site**  
**Measurement Method for 15 Mile Surface Water Pathway**

- **Measurement Method:**

Using GIS software, ESRI® ArcMap™ 9.3 (Build 1850) with License Type: ArcView, the previously defined 15 Mile Surface Water Pathway for Gary Development Landfill was measured using ArcMap. The Measure tool (Line Measurement option) was used in ArcMap to measure the respective segments of water pathways.

Using the Stream Reach Index layer as a guide to measure with, red measurement intersections were placed to divide the different segments of the 15 Mile Surface Water Pathway.

The different segments are as follows:

**SEGMENT 1:** Gary Development Landfill PPE to the Grand Calumet River (0.032 miles)

**SEGMENT 2:** Following the Grand Calumet River to the confluence of the Grand Calumet River and the Indiana Harbor Canal (2.917 miles)

**SEGMENT 3:** Following the Indiana Harbor Canal to Lake Michigan (4.079 miles)

**SEGMENT 4:** Into Lake Michigan (7.972 miles)

- **Reference Datum:**

- Datum: D\_North\_American\_1983
- Geographic Coordinate System: GCS\_North\_American\_1983
- Prime Meridian: Greenwich
- Angular Unit: Degree

- **Stream Reach Index Layer Information:**

File or table name: IDEM.IN\_ReachIndex\_2008\_Streams

The 2008 Indiana Reach Index was created using the U.S. EPA's Reach Indexing Tool (RIT) in ArcView 3.2. The event table for the statewide 2006 Indiana Reach Index was used as a starting point for revision. All indexing was completed in decimal degrees.

- **Source Map Scale:**

- 1:50,000

- **Point / Line / Area:**

- Line(s)

- **Data Collection Date:**

- 8-5-2010



# Surface Water Pathway Measurement, Gary Development Landfill Gary, Lake County, Indiana (U.S. EPA ID: IND077005916)

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Sources:  
**Non Orthophotography Data**  
 - Obtained from the State of Indiana Geographic Information Office Library  
**Orthophotography** - Obtained from IndianaMap Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.  
**Mapped By:** Mike Hill, Office of Land Quality  
**Date:** 8/5/2010



- PPE - Gary Deveolpment Landfill
- Measurement Intersection
- Stream Reach Index
- Approximate Site Boundary

